LETTER REPORT
FOR
CELOTEX SITE
WILMINGTON, WILL COUNTY, ILLINOIS
TDD: S05-9903-018
PAN: 9M1801SIXX

June 28, 1999

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Emergency and Enforcement Response Branch
77 West Jackson Boulevard
Chicago, Illinois 60604

Prepared by: _____ Date: 6/28/99
for Raghu Nagam, START Project Manager

Reviewed by: _____ Date: 6/28/99
P.M. Zwilling, START Assistant Program Manager

Approved by: _____ Date: 6/28/99
M.J. Ripp, START Program Manager

International Specialists in the Environment

33 North Dearborn Street, Chicago, Illinois 60602
Tel. 312/578-9243, Fax: 312/578-9345

ecology and environment, inc.
International Specialists in the Environment

33 North Dearborn Street
Chicago, Illinois 60602
Tel 312/578-9243, Fax: 312/578-9345

June 28. 1999

Ms. Gail Nabasny, START Project Officer
United States Environmental Protection Agency
77 West Jackson Boulevard
Chicago, Illinois 60604

Subject: Celotex Site
Wilmington, Will County, Illinois
TDD: S05-9903-018
PAN: 9M1801SIXX

Dear Ms. Nabasny:

The United States Environmental Protection Agency (U.S. EPA) tasked the Ecology and Environment, Inc. (E & E), Superfund Technical Assessment and Response Team (START) under Technical Direction Document (TDD) S05-9903-018 to conduct a site assessment at the Celotex site and evaluate potential or actual threats to human health and the environment.

START member Raghu Nagam conducted the site assessment on April 5, 1999. U.S. EPA was represented by On-Scene Coordinator (OSC) Fred Bartman and Remedial Project Manager (RPM) John Peterson. The Celotex site is an inactive facility that indulged in pulp and paper manufacturing in the past. The facility is situated in a residential area and within a few hundred yards of the Kankakee River (Attachment A, Figure 1). Several cleanups were conducted at the site by U.S. EPA in the past. This site assessment is targeted to evaluate potential contamination in one of the two on-site lagoons which may have been used in the past to stage pulp and paper waste. The Illinois Environmental Protection Agency (IEPA) has sampled the lagoon before and found waste contaminated with polychlorinated biphenyls (PCBs).

The two on-site lagoons are surrounded by heavily wooded areas to the north, south, and east sides. To the west of the lagoons is an access pathway and the Wilmington Wastewater Treatment Plant (WWTP). The Kankakee River is situated to the west of the WWTP. The site has a fence and an access gate on the east side. The site is accessible through the access road leading to the WWTP.

The site is several acres in size and has no structural buildings on-site. An access road separates the site from the WWTP. Just east of the access road is Celotex's unfenced western boundary. Adjacent to the western boundary is a depression that is filled with water. The east side of this depression is 20 to 30 feet below an elevated dirt road. Immediately to the east of the elevated dirt road is one of the on-site lagoons (South Lagoon). The South Lagoon is approximately 10 to 15 feet below the elevated dirt road elevation (Attachment A, Figure 2). This lagoon is dry except for some rain water in small pools. Dry vegetation and trees are present in this lagoon. This area might have been used in the past to discard pulp and paper waste and sludge. OSC and START conducted some exploratory diggings to observe the characteristics of the underlying material. Water is present at approximately six inches in depth. The underlying material appeared soft and light. To the north of this lagoon is the second on-site lagoon (North Lagoon). The North Lagoon is also dry and has not been used for waste disposal.

After a site reconnaissance, a meeting was held between OSC Bartman, RPM Peterson, and representatives for Celotex. After the meeting, START conducted sampling activities in the South Lagoon (Attachment A, Figure 3). Celotex collected split samples from U.S. EPA. Sample DEP-1 was collected at a 0- to 6-inch depth from the west side of the lagoon, and was comprised of brown sandy material intermingled with a brown colored light-weight material. Sample DEP-2 was collected at a 2-foot depth from the northwest side of the lagoon, and was comprised of brown sandy material intermingled with clay and a brown colored light-weight material. Sample DEP-3 was collected at a 1-foot depth from the south side of the lagoon, and was comprised of blackish sand. Sample DEP-4 was collected at a 1-foot depth from the east side of the lagoon, and was comprised of blackish sand. During the site reconnaissance and sample collection, air monitoring with a photoionization detector (PID) was conducted. All readings were at background level of 0 parts per million (ppm) organic vapor concentration in air. After conducting sampling activities, all equipment was decontaminated and the personal protective equipment (PPE) was double bagged and left on site under the directions of the OSC. During this site assessment, site features were photographed (Attachment B).

After completing sampling paperwork, samples were shipped to E & E's Analytical Services Center in Lancaster, New York, for PCB analysis under analytical TDD S05-9903-815. A two week sample analysis turnaround time was requested with a quality assurance/quality control (QA/QC) level II criteria.

The analytical results (Attachment C, Table 1) of the samples showed trace quantities (less

than 1 milligram per kilogram) of PCB contamination. The concentration of PCBs, as observed in the samples, do not pose an immediate threat to human health and the environment. The validated analytical data package is included in Attachment D.

This Letter Report completes the requirements of this TDD. Should you have any questions, please contact me at 312-578-9243.

Sincerely,

Raghu Nagam
START Project Manager

M.J. Ripp
START Program Manager

Attachment: A - Figures
B - Photodocumentation
C - Table
D - Validated Analytical Data Package

cc: Fred Bartman, U.S. EPA OSC
TDD file

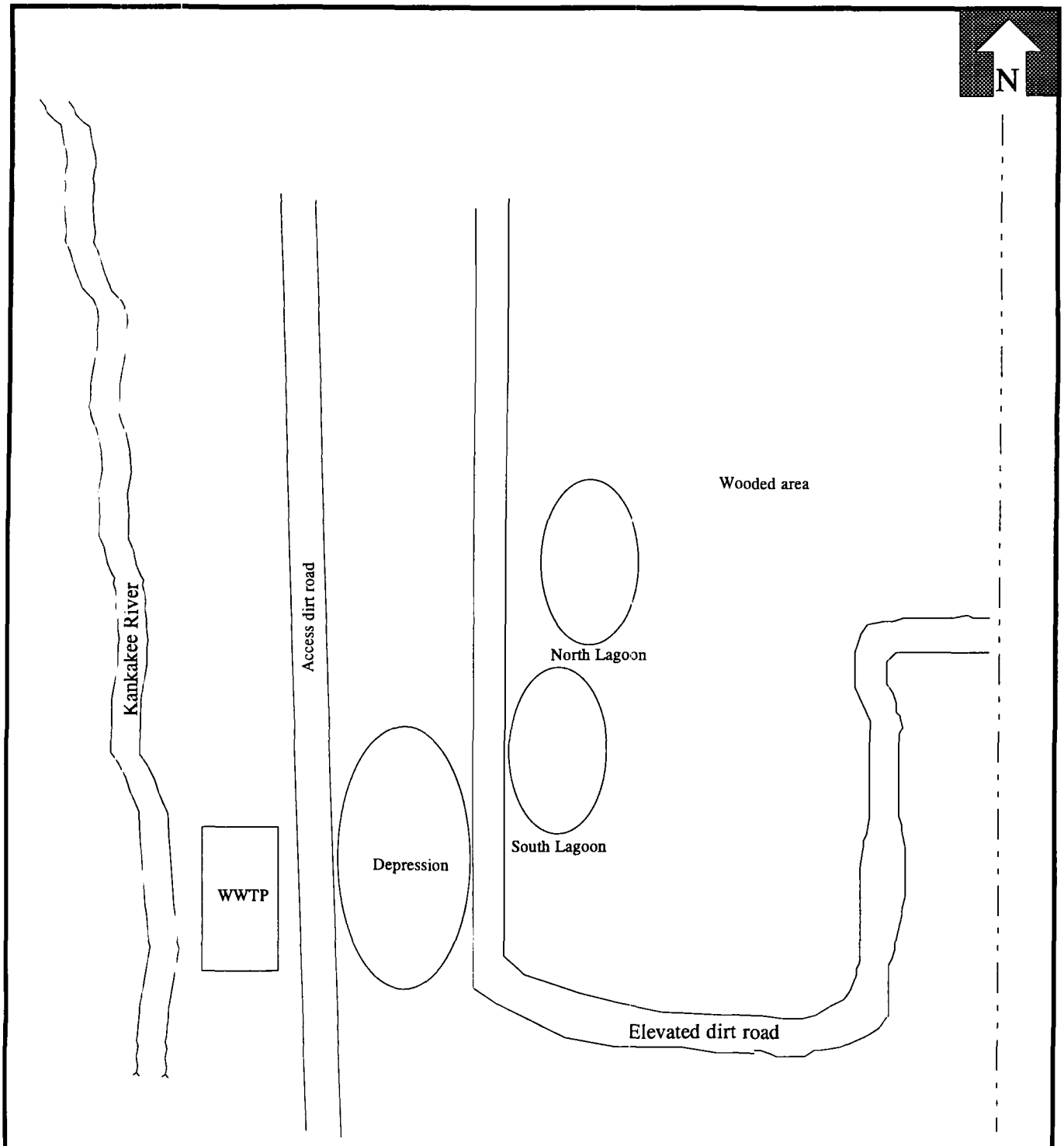
Attachment A

Figures

Quadrangle Location

ecology and environment, inc.
Region 5 - Superfund Technical Assessment and Response Team
33 North Dearborn Street, Suite 900, Chicago, Illinois 60602

TITLE: Site Location Map	FIGURE: 1
SITE: Celotex	SCALE: 1:24,000
CITY: Wilmington STATE: Illinois	TDD: S05-9903-018
SOURCE: USGS Topographic Map 7.5 Minute Series Wilmington, Illinois Quadrangle	DATE: 1954 REVISED: 1973



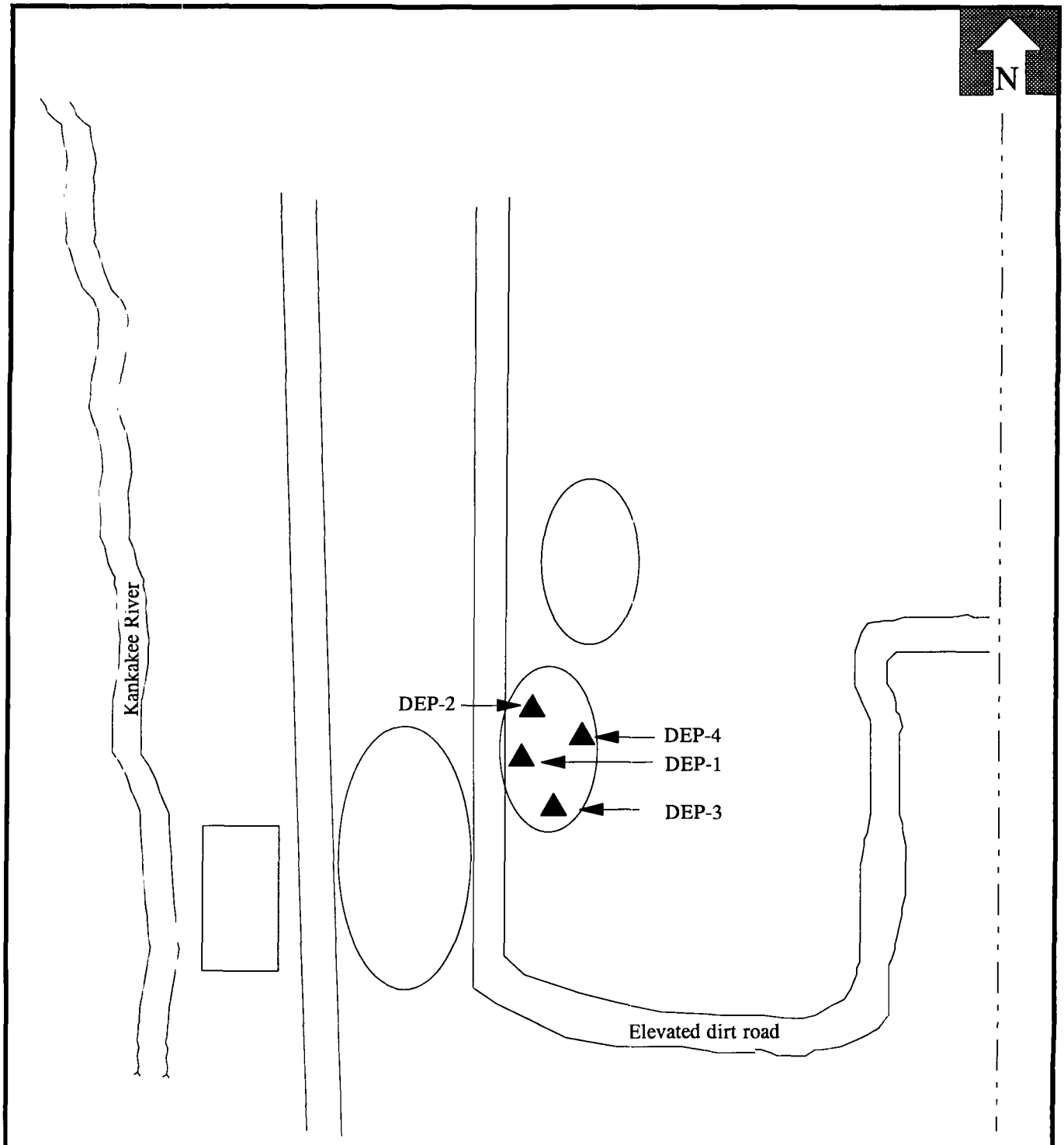
Legend

WWTP Wastewater treatment plant

— - - Fence

ecology and environment, inc.
Region 5 - Superfund Technical Assessment and Response Team
33 North Dearborn Street, Chicago, Illinois 60602

TITLE: Site Features Map	FIGURE: 2
SITE: Celotex	SCALE: Not to scale
CITY: Wilmington STATE: Illinois	TDD: S05-9903-018
SOURCE: Ecology and Environment, Inc.	DATE: 1999



Legend

DEP-1 Sample identification number

▲ Sample location

ecology and environment, inc.

Region 5 - Superfund Technical Assessment and Response Team

33 North Dearborn Street, Chicago, Illinois 60602

TITLE: Sample Location Map	FIGURE: 3
SITE: Celotex	SCALE: Not to scale
CITY: Wilmington STATE: Illinois	TDD: S05-9903-018
SOURCE: Ecology and Environment, Inc.	DATE: 1999

Attachment B

Photodocumentation

Site:	Celotex	**Date:**	April 5, 1999	**Time:**	1500
Location:	Wilmington, IL	**Direction:**	Southeast	**Photographer:**	R. Nagam
Subject:	Perspective of sample DEP-1 location.				

Site:	Celotex	**Date:**	April 5, 1999	**Time:**	1500
Location:	Wilmington, IL	**Direction:**	East	**Photographer:**	R. Nagam
Subject:	View of sample DEP-1 location.				

Site:	Celotex	**Date:**	April 5, 1999	**Time:**	1502
Location:	Wilmington, IL	**Direction:**	East	**Photographer:**	R. Nagam
Subject:	View of sample DEP-2 location.				

Site:	Celotex	**Date:**	April 5, 1999	**Time:**	1502
Location:	Wilmington, IL	**Direction:**	Southeast	**Photographer:**	R. Nagam
Subject:	Perspective of sample DEP-2 location.				

Site:	Celotex	**Date:**	April 5, 1999	**Time:**	1505
Location:	Wilmington, IL	**Direction:**	North	**Photographer:**	R. Nagam
Subject:	View of sample DEP-3 location.				

Site:	Celotex	**Date:**	April 5, 1999	**Time:**	1505
Location:	Wilmington, IL	**Direction:**	North	**Photographer:**	R. Nagam
Subject:	Perspective of sample DEP-3 location.				

Site:	Celotex	**Date:**	April 5, 1999	**Time:**	1510
Location:	Wilmington, IL	**Direction:**	Southwest	**Photographer:**	R. Nagam
Subject:	View of sample DEP-4 location.				

Site:	Celotex	**Date:**	April 5, 1999	**Time:**	1510
Location:	Wilmington, IL	**Direction:**	Southwest	**Photographer:**	R. Nagam
Subject:	Perspective of sample DEP-4 location.				

Attachment C

Table

Table 1

LAGOON SOIL PCB RESULTS
CELOTEX, WILMINGTON, WILL COUNTY, ILLINOIS
APRIL 1999

Parameter	Sample Designation (mg/kg)			
	DEP-1	DEP-2	DEP-3	DEP-4
PCB-1242	ND	ND	ND	ND
PCB-1254	ND	0.620	0.200	0.150
PCB-1221	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND
PCB-1248	0.690	ND	ND	ND
PCB-1260	ND	ND	0.150	0.100
PCB-1016	ND	ND	ND	ND

Key:
mg/kg = Milligrams per kilogram.
ND = Not detected.

Source: Ecology and Environment, Inc., Analytical Services Center, Lancaster, New York, analytical TDD S05-9903-815.

Attachment D

Analytical Data Package

ecology and environment, inc.
International Specialists in the Environment

33 North Dearborn Street
Chicago, Illinois 60602
Tel. 312/578-9243, Fax: 312/578-9345

M E M O R A N D U M

DATE: June 8, 1999

TO: Raghu Nagam, START Project Manager, E & E, Chicago, Illinois

FROM: David Hendren, START Analytical Services Manager, E & E, Chicago, Illinois

THROUGH: Patrick Zwilling, START Assistant Program Manager, E & E, Chicago, Illinois

SUBJECT: Data Quality Review for Polychlorinated Biphenyls (PCBs), Celotex, Wilmington, Will County, Illinois

REFERENCE: Project TDD S05-9903-018 Analytical TDD S05-9903-815
Project PAN 9M1801SIXX Analytical PAN 9MA001TAXX

The data quality assurance (QA) review of four soil samples collected from the Celotex site is complete. The samples were collected on April 5, 1999, by the Superfund Technical Assessment and Response Team (START) contractor, Ecology and Environment, Inc. (E & E). The samples were submitted to Ecology and Environment, Inc., Analytical Services Center, Lancaster, New York. The laboratory analyses were performed according to the United States Environmental Protection Agency (U.S. EPA) Solid Waste 846 Method 8082.

Sample Identification

START Identification No.	Laboratory Identification No.
Dep-1	EE-99-30560
Dep-2	EE-99-30561
Dep-3	EE-99-30562
Dep-4	EE-99-30563

Data Qualifications:

I. Sample Holding Time: Acceptable

The samples were collected on April 5, 1999, extracted on April 7, 1999, and analyzed on April 16, 1999. This is within the 14-day holding time limit, from collection to extraction, and 40-day limit from extraction to analysis.

II. Instrument Performance: Acceptable

The chromatographic resolution was adequate in the standard and sample chromatograms. Surrogate retention times were consistent in the samples and standards.

III. Calibrations:

• Initial Calibration: Acceptable

A five-point initial calibration was performed prior to analysis. The percent relative standard deviations (%RSDs) between response factors were less than 20% for all PCBs.

• Continuing Calibration: Acceptable

The percent differences of the response factors were less than 15%, for detected PCBs.

IV. Blank: Acceptable

A method blank was analyzed with the sample. No target compounds or contaminants were detected in the blank.

V. Compound Identification: Acceptable

The chromatographic patterns of the detected PCBs in the samples matched those of the standards.

VI. Additional QC Checks: Acceptable

The recoveries of the surrogates used in the samples were within acceptable laboratory limits.

VII. Overall Assessment of Data for Use: Acceptable

The overall usefulness of the data is based on criteria for QA Level II as outlined in the Office of Solid Waste and Emergency Response (OSWER) Directive 9360.4-01 (April 1990), Data Validation Procedures, Section 7.0, PCBs. Based upon the information provided, the data are acceptable for use.

TEST CODE :SPCB0A1 JOB NUMBER :9901.030
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : START - CHICAGO
RESULTS IN DRY WEIGHT %SOLIDS : 44 %
TEST NAME : 8082 PCB UNITS : UG/KG
SAMPLE ID LAB : EE-99-30560 MATRIX : SOLID
SAMPLE ID CLIENT: DEP-1

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		450
PCB-1254	ND		450
PCB-1221	ND		910
PCB-1232	ND		450
PCB-1248	690		450
PCB-1260	ND		450
PCB-1016	ND		450

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :SPCB0A1 JOB NUMBER :9901.030
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : START - CHICAGO
RESULTS IN DRY WEIGHT %SOLIDS : 55 %
TEST NAME : 8082 PCB UNITS : UG/KG
SAMPLE ID LAB : EE-99-30561 MATRIX : SOLID
SAMPLE ID CLIENT: DEP-2

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		180
PCB-1254	620		180
PCB-1221	ND		360
PCB-1232	ND		180
PCB-1248	ND		180
PCB-1260	ND		180
PCB-1016	ND		180

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :SPCB0A1 JOB NUMBER :9901.030
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : START - CHICAGO
RESULTS IN DRY WEIGHT %SOLIDS : 29 %
TEST NAME : 8082 PCB UNITS : UG/KG
SAMPLE ID LAB : EE-99-30562 MATRIX : SOLID
SAMPLE ID CLIENT: DEP-3

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		69
PCB-1254	200		69
PCB-1221	ND		140
PCB-1232	ND		69
PCB-1248	ND		69
PCB-1260	150		69
PCB-1016	ND		69

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :SPCB0A1 JOB NUMBER :9901.030
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : START - CHICAGO
RESULTS IN DRY WEIGHT %SOLIDS : 34 %
TEST NAME : 8082 PCB UNITS : UG/KG
SAMPLE ID LAB : EE-99-30563 MATRIX : SOLID
SAMPLE ID CLIENT: DEP-4

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		59
PCB-1254	150		59
PCB-1221	ND		120
PCB-1232	ND		59
PCB-1248	ND		59
PCB-1260	100		59
PCB-1016	ND		59

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

Attachment C

Table

Table 1

LAGOON SOIL PCB RESULTS
CELOTEX, WILMINGTON, WILL COUNTY, ILLINOIS
APRIL 1999

Parameter	Sample Designation (mg/kg)			
	DEP-1	DEP-2	DEP-3	DEP-4
PCB-1242	ND	ND	ND	ND
PCB-1254	ND	0.620	0.200	0.150
PCB-1221	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND
PCB-1248	0.690	ND	ND	ND
PCB-1260	ND	ND	0.150	0.100
PCB-1016	ND	ND	ND	ND

Key:
mg/kg = Milligrams per kilogram.
ND = Not detected.

Source: Ecology and Environment, Inc., Analytical Services Center, Lancaster, New York, analytical TDD S05-9903-815.

Attachment D

Analytical Data Package

ecology and environment, inc.
International Specialists in the Environment

33 North Dearborn Street
Chicago, Illinois 60602
Tel. 312/578-9243, Fax: 312/578-9345

M E M O R A N D U M

DATE: June 8, 1999

TO: Raghu Nagam, START Project Manager, E & E, Chicago, Illinois

FROM: David Hendren, START Analytical Services Manager, E & E, Chicago, Illinois

THROUGH: Patrick Zwilling, START Assistant Program Manager, E & E, Chicago, Illinois

SUBJECT: Data Quality Review for Polychlorinated Biphenyls (PCBs), Celotex, Wilmington, Will County, Illinois

REFERENCE: Project TDD S05-9903-018 Analytical TDD S05-9903-815
Project PAN 9M1801SIXX Analytical PAN 9MA001TAXX

The data quality assurance (QA) review of four soil samples collected from the Celotex site is complete. The samples were collected on April 5, 1999, by the Superfund Technical Assessment and Response Team (START) contractor, Ecology and Environment, Inc. (E & E). The samples were submitted to Ecology and Environment, Inc., Analytical Services Center, Lancaster, New York. The laboratory analyses were performed according to the United States Environmental Protection Agency (U.S. EPA) Solid Waste 846 Method 8082.

Sample Identification

START Identification No.	Laboratory Identification No.
Dep-1	EE-99-30560
Dep-2	EE-99-30561
Dep-3	EE-99-30562
Dep-4	EE-99-30563

Data Qualifications:

I. Sample Holding Time: Acceptable

The samples were collected on April 5, 1999, extracted on April 7, 1999, and analyzed on April 16, 1999. This is within the 14-day holding time limit, from collection to extraction, and 40-day limit from extraction to analysis.

II. Instrument Performance: Acceptable

The chromatographic resolution was adequate in the standard and sample chromatograms. Surrogate retention times were consistent in the samples and standards.

III. Calibrations:

• Initial Calibration: Acceptable

A five-point initial calibration was performed prior to analysis. The percent relative standard deviations (%RSDs) between response factors were less than 20% for all PCBs.

• Continuing Calibration: Acceptable

The percent differences of the response factors were less than 15%, for detected PCBs.

IV. Blank: Acceptable

A method blank was analyzed with the sample. No target compounds or contaminants were detected in the blank.

V. Compound Identification: Acceptable

The chromatographic patterns of the detected PCBs in the samples matched those of the standards.

VI. Additional QC Checks: Acceptable

The recoveries of the surrogates used in the samples were within acceptable laboratory limits.

VII. Overall Assessment of Data for Use: Acceptable

The overall usefulness of the data is based on criteria for QA Level II as outlined in the Office of Solid Waste and Emergency Response (OSWER) Directive 9360.4-01 (April 1990), Data Validation Procedures, Section 7.0, PCBs. Based upon the information provided, the data are acceptable for use.

TEST CODE :SPCB0A1 JOB NUMBER :9901.030
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : START - CHICAGO
RESULTS IN DRY WEIGHT %SOLIDS : 44 %
TEST NAME : 8082 PCB UNITS : UG/KG
SAMPLE ID LAB : EE-99-30560 MATRIX : SOLID
SAMPLE ID CLIENT: DEP-1

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		450
PCB-1254	ND		450
PCB-1221	ND		910
PCB-1232	ND		450
PCB-1248	690		450
PCB-1260	ND		450
PCB-1016	ND		450

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :SPCB0A1 JOB NUMBER :9901.030
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : START - CHICAGO
RESULTS IN DRY WEIGHT %SOLIDS : 55 %
TEST NAME : 8082 PCB UNITS : UG/KG
SAMPLE ID LAB : EE-99-30561 MATRIX : SOLID
SAMPLE ID CLIENT: DEP-2

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		180
PCB-1254	620		180
PCB-1221	ND		360
PCB-1232	ND		180
PCB-1248	ND		180
PCB-1260	ND		180
PCB-1016	ND		180

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :SPCB0A1 JOB NUMBER :9901.030
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : START - CHICAGO
RESULTS IN DRY WEIGHT %SOLIDS : 29 %
TEST NAME : 8082 PCB UNITS : UG/KG
SAMPLE ID LAB : EE-99-30562 MATRIX : SOLID
SAMPLE ID CLIENT: DEP-3

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		69
PCB-1254	200		69
PCB-1221	ND		140
PCB-1232	ND		69
PCB-1248	ND		69
PCB-1260	150		69
PCB-1016	ND		69

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :SPCB0A1 JOB NUMBER :9901.030
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : START - CHICAGO
RESULTS IN DRY WEIGHT %SOLIDS : 34 %
TEST NAME : 8082 PCB UNITS : UG/KG
SAMPLE ID LAB : EE-99-30563 MATRIX : SOLID
SAMPLE ID CLIENT: DEP-4

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		59
PCB-1254	150		59
PCB-1221	ND		120
PCB-1232	ND		59
PCB-1248	ND		59
PCB-1260	100		59
PCB-1016	ND		59

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE